WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-13							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T196_07							
	gator(s): SLI, EAC		Landform (hill	(hillside, terrace, hummocks etc.): Toeslope								
-	elief (concave, convex, none): concave			Slope: 1.7 % / 1.0 ° Elevation: 795								
	ion: Interior Alaska Mountains		63.305154204		Long.: -148.194060445 Datum: WGS84							
•	p Unit Name:	•	NWI classification: PEM1E									
) Van	No ○								
Are V		significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No ○												
	Hydric Soil Present? Yes No C)		Is the Sampled Area								
	Wetland Hydrology Present? Yes No ○)	wi	within a Wetland? Yes ● No ○								
Remarks:												
	TATION - Use scientific names of plants. Li	st all spe Absolute % Cover	cies in the Dominant Species?		Dominance Test worksheet: Number of Dominant Species							
1.	- Stratum	0			That are OBL, FACW, or FAC:4 (A)							
2.			Π		Total Number of Dominant Species Across All Strata: 4 (B)							
3.					Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cover:	0			Total % Cover of: Multiply by:							
Sapl	ling/Shrub Stratum 50% of Total Cover:	of Total Cover:	0	OBL Species 44.1 x 1 = 44.1								
1	Betula nana	1		FAC	FACW Species 7 x 2 = 14							
	Andromoda polifolia (IAM)		<u> </u>	OBL	FAC Species 1 x 3 = 3							
	Saliv fuscosoons	7	~	FACW	FACU Species 0.2 x 4 = 0.800							
	Picea glauca	0.1		FACU	UPL Species 0 x 5 = 0							
5.	Vaccinium oxycoccos	0.1		OBL	Column Totals: <u>52.3</u> (A) <u>61.9</u> (B)							
6.	Picea glauca	0.1		FACU								
7.		0			Prevalence Index = B/A = 1.184							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0			✓ Dominance Test is > 50%							
10.		0			✓ Prevalence Index is ≤3.0							
Herl	Total Cover: 50% of Total Cover:		of Total Cover	2.66	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
1.	Eriophorum angustifolium	_1_		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Carex aquatilis			OBL	¹ Indicators of hydric soil and wetland hydrology must							
3.	Trichophorum caespitosum	-		OBL	be present, unless disturbed or problematic.							
4.	Carex limosa		V	OBL	Plot size (radius, or length x width)							
_	Carex magellanica	<u>10</u> 5		OBL	% Cover of Wetland Bryophytes							
_	Eriophorum scheuchzeri			OBL	(Where applicable)							
					% Bare Ground							
					Total Cover of Bryophytes							
		0			Undrankstia							
10.		_		Hydrophytic Vegetation								
	50% of Total Cover:1		of Total Cover:	7.8	Present? Yes • No O							
Rem:	arks:											
Kem	ui No.											

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T196_07

·	•	e depth nee atrix	ded to docum	ent the indicator or c	onfirm the ab		cators)				
Depth (inches)	Color (moist	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
0-18		2.5/3	100	,		-72-		Fibric Organics			
								-			
									-		
							-				
1				2							
*Type: C=Con	centration. D=D	epletion. I		d Matrix ² Location				nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for P		4	oils:³	_			
✓ Histosol or Histel (A1)				Alaska Color (Change (TA	1)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen :	Sulfide (A4)			Alaska Redox With 2.5Y Hue Other (Explain in Remarks)							
☐ Thick Dark	Surface (A12)			2.5							
Alaska Gle	yed (A13)			One indicator of and an appropria				nary indicator of wetland hesent	nydrology,		
Alaska Red	lox (A14)				•	•	•	COCITE			
Alaska Gle	yed Pores (A15)			⁴ Give details of	color chang	e in Remark	KS				
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present	? Yes • No ·		
Depth (inch	es):										
HYDROLO	GY										
	ology Indicato	rs:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)		
Surface W	ater (A1)			Inundation	Visible on A	erial Image	ry (B7)	☐ Drainage F	Patterns (B10)		
✓ High Wate	er Table (A2)			☐ Sparsely Ve	getated Cor	cave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
✓ Saturation	(A3)			Marl Deposi	ts (B15)			Presence of	of Reduced Iron (C4)		
☐ Water Mar	ks (B1)			Hydrogen S	ulfide Odor	(C1)		☐ Salt Depos	sits (C5)		
Sediment	Deposits (B2)			☐ Dry-Season	Water Tabl	e (C2)		☐ Stunted or	Stressed Plants (D1)		
Drift Depo	sits (B3)			Other (Expla	ain in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)		
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observa	tions:										
Surface Water	Present?	Yes 🔾	No 💿	Depth (inch	ies):						
Water Table P	resent?	Yes	No \bigcirc	Depth (inch	ies): 2		Wetla	nd Hydrology Presen	it? Yes 💿 No 🔾		
Saturation Pre		Yes	No O	Donth (inch	, oc). 0						
(includes capil	lary fringe)	165 🙂	NO C	Depth (inch	ies): 0						
Describe Record	ded Data (stream	n gauge, r	nonitor well,	, aerial photos, pre	evious inspe	ction) if av	ailable:				
Domorka											
Remarks:	nools of surface	water									
oman scattered	pools of surface	water.									

U.S. Army Corps of Engineers Alaska Version 2.0